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PN - JP56025969 A 19810312  
 PD - 1981-03-12  
 PR - JP19790099762 19790804  
 OPD - 1979-08-04  
 TI - MANUFACTURE OF PRODUCT HAVING GLASSY FILM  
 IN - HATSUSHIRO MASAHIKO; YAMAKAWA SEISHIROU  
 PA - MATSUSHITA ELECTRIC WORKS LTD  
 IC - C03C17/25 ; C04B41/32 ; C23D5/00

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TI - Forming transparent glass coatings on substrates, e.g. metals - by applying aq. alkali metal silicate soln. and phosphate borate or aluminite baking and treating with hot water or steam  
 PR - JP19790099762 19790804  
 PN - JP56025969 A 19810312 DW 198118 000pp  
 PA - (MATW) MATSUSHITA ELECTRIC WORKS LTD  
 IC - C03C17/25 ; C04B41/32 ; C23D5/00  
 AB - J56025969 Method comprises ( 1) applying an alkali metal silicate aq. solution containing (a) silicate of formula  $M 2O.xSiO 2.yH 2O$  (where M is alkali metal, x is at least 0.5, and y is 0 or positive number) and (b) at least one of phosphate, borate and aluminite of alkali metal an amount of 1-30 mol.% based in  $SiO_2$  (calculated as  $P_2O_5$ ,  $B_2O_3$  or  $Al_2O_3$  respectively), ( 2) drying, ( 3) baking, ( 4) treating with hot water or steam.  
 - Pref. substrate is metallic plate (such as Al), glass plate or cement plate.  
 - Transparent, clear glassy coatings can be formed.  
 OPD - 1979-08-04  
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 PA - MATSUSHITA ELECTRIC WORKS LTD  
 TI - MANUFACTURE OF PRODUCT HAVING GLASSY FILM  
 AB - PURPOSE: To manufacture products having transparent glassy coating, by mixing alkali metal silicate of specific component with a specific salt of 1a group alkali metal of the periodic table at a prescribed ratio.  
 - CONSTITUTION: A material, shown by formula, comprising alkali metal silicate and a modifying agent contg. at least one member among phosphate, borate, and aluminite of 1a group alkali metal of the periodic table is used as the raw material. Said components in total 1-30mol in terms of respective  $P_2O_5$ ,  $B_2O_3$ ,  $Al_2O_3$  are mixed with 100mol  $SiO_2$  component contained in glassy coating to prepare an aqueous soln. of modified alkali silicate. The aqueous soln. is applied to a material, dried at < 100 deg.C temp., and baked primarily at 100-200 deg.C temp. and secondarily at 200-400 deg.C to form a film which is dealkalinized with hot water and steam at >= 50 deg.C temp. for >= 0.5min respectively thereby producing a transparent glassy film.  
 I - C23D5/00 ; C03C17/25 ; C04B41/32

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